

**J. GRUBER'S**

**BY INDUSTRY WE THRIVE**



**HAGERS-TOWN**  
**Town and Country**  
**ALMANACK.**  
**FOR THE YEAR OF OUR LORD**  
**1909.**



**HAGERSTOWN, MD., PRINTED BY JOHN GRUBER.**

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## Large Multiplication Table.

This Table shows, that the large figures in front of each double row are intended to multiply the small head figures in said row; for instance, the large 2 is followed by 2, 3, 4, 5, 6, 7, 8, and 9, beneath which stands the

increase of each, multiplied by 2, viz: 2 times 2 are 4; 3 times 2 are 6; 4 times 2 are 8, and will be seen at the end of the row; and in the last row 25 times 2 are 50, &c., and at the end 25 times 25 are 625.

2	2	3	4	5	6	7	8	9
4	6	8	10	12	14	16	18	20
6	12	18	24	30	36	42	48	54
8	16	24	32	40	48	56	64	72
10	20	30	40	50	60	70	80	90
12	24	36	48	60	72	84	96	108
14	28	42	56	70	84	98	112	126
16	32	48	64	80	96	112	128	144
18	36	54	72	90	108	126	144	162
20	40	60	80	100	120	140	160	180
22	44	66	88	110	132	154	176	198
24	48	72	96	120	144	168	192	216
26	52	78	104	130	156	182	208	234
28	56	84	112	140	168	196	224	252
30	60	90	120	150	180	210	240	270
32	64	96	128	160	192	224	256	288
34	68	102	136	168	204	238	272	306
36	72	108	144	176	216	252	288	324
38	76	114	152	184	224	266	304	342
40	80	120	160	192	232	280	320	360
42	84	126	168	204	246	294	336	378
44	88	132	176	216	256	308	352	396
46	92	138	184	228	268	322	368	414
48	96	144	192	240	280	336	384	432
50	100	150	200	250	300	350	400	450
52	104	156	208	264	312	364	416	468
54	108	162	216	276	324	378	432	486
56	112	168	224	288	336	392	448	504
58	116	174	232	296	348	406	464	522
60	120	180	240	300	360	420	480	540
62	124	186	248	312	372	434	496	558
64	128	192	256	324	384	448	512	576
66	132	198	264	336	396	462	528	594
68	136	204	272	348	408	476	544	612
70	140	210	280	360	420	490	560	630
72	144	216	288	372	432	504	576	648
74	148	222	296	384	444	518	592	666
76	152	228	304	396	456	532	608	684
78	156	234	312	408	468	546	624	702
80	160	240	320	420	480	560	640	720
82	164	246	328	432	492	574	656	738
84	168	252	336	444	504	588	672	756
86	172	258	344	456	516	602	688	774
88	176	264	352	468	528	616	704	792
90	180	270	360	480	540	630	720	810
92	184	276	368	492	552	644	736	828
94	188	282	376	504	564	658	752	846
96	192	288	384	516	576	672	768	864
98	196	294	392	528	588	686	784	882
100	200	300	400	540	600	700	800	900

A TABLE, showing the times of the revolutions of the Planets round the Sun, their distances and size.

PLANET	Revolutions round the Sun	Days, Hours, Minutes, Seconds	Mean distance from the Sun	in millions of miles.	is approximately	1,000,000 times
MERCURY.....	88	88	36	36	1-1000	1-1000
VENUS.....	225	225	69	69	1-1000	1-1000
EARTH.....	365	365	93	93	1-1000	1-1000
MARS.....	687	687	142	142	1-1000	1-1000
JUPITER.....	11.86	4333	483	483	1-1000	1-1000
SATURN.....	29.46	10759	954	954	1-1000	1-1000
URANUS.....	84.01	30688	1784	1784	1-1000	1-1000
NEPTUNE.....	164.97	60182	2805	2805	1-1000	1-1000
PLOUTON.....	248.09	90483	3946	3946	1-1000	1-1000

as large as the earth.

The Sun is 109 times the diameter of the earth, 333,000 times the weight, and 333,000 times the volume of the earth.



Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			



**THE GRUBER ALMACK CO.**  
 1000 Broadway, New York, N. Y.  
 Sole U. S. Agents for the  
 "MORNING AND EVENING STAR"  
 and "THE ALMACK" in  
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 Possessions.

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 Possessions.

**COURT OF APPEALS OF MARYLAND**  
 APRIL TERM, 1918.  
**THE GRUBER ALMACK COMPANY**  
 vs.  
**GITHO SAVOLEY.**  
 The Gruber Almack Company, Plaintiff in Error,  
 vs.  
 Githo Savoley, Defendant in Error.  
 Appeal from the Circuit Court for the City and County of Baltimore.

**J. GRUBER'S**  
**MASSAGE-TENS TOWN AND COUNTRY ALMACK**  
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Day	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Sun.	Day's length	Hours
1st	10 49	9 58	8 46	7 13	5 40	4 17	3 03	14 hours 46 min.	11 58
2d	11 47	9 55	8 40	7 08	5 35	4 12	3 00	14 hours 46 min.	11 58
3d	12 45	10 52	9 35	7 59	6 30	5 03	3 57	14 hours 46 min.	11 58
4th	13 42	11 49	10 30	8 53	7 18	5 48	4 54	14 hours 46 min.	11 58
5th	14 39	12 46	11 25	9 50	8 00	6 30	5 30	14 hours 46 min.	11 58
6th	15 36	13 43	12 20	10 45	8 50	7 15	6 15	14 hours 46 min.	11 58
7th	16 33	14 40	13 15	11 40	9 45	8 00	7 00	14 hours 46 min.	11 58
8th	17 30	15 37	14 10	12 35	10 40	8 45	7 45	14 hours 46 min.	11 58
9th	18 27	16 34	15 05	13 30	11 35	9 40	8 40	14 hours 46 min.	11 58
10th	19 24	17 31	16 00	14 25	12 30	10 35	9 35	14 hours 46 min.	11 58
11th	20 21	18 28	16 55	15 20	13 25	11 30	10 30	14 hours 46 min.	11 58
12th	21 18	19 25	17 50	16 15	14 20	12 25	11 25	14 hours 46 min.	11 58
13th	22 15	20 22	18 45	17 10	15 15	13 20	12 20	14 hours 46 min.	11 58
14th	23 12	21 19	19 40	18 05	16 10	14 15	13 15	14 hours 46 min.	11 58
15th	24 09	22 16	20 35	19 00	17 05	15 10	14 10	14 hours 46 min.	11 58
16th	25 06	23 13	21 30	20 00	18 00	16 05	15 05	14 hours 46 min.	11 58
17th	26 03	24 10	22 25	21 00	19 00	17 00	16 00	14 hours 46 min.	11 58
18th	27 00	25 07	23 20	22 00	20 00	18 00	17 00	14 hours 46 min.	11 58
19th	28 00	26 00	24 15	23 00	21 00	19 00	18 00	14 hours 46 min.	11 58
20th	29 00	27 00	25 10	24 00	22 00	20 00	19 00	14 hours 46 min.	11 58
21st	30 00	28 00	26 05	25 00	23 00	21 00	20 00	14 hours 46 min.	11 58
22nd	31 00	29 00	27 00	26 00	24 00	22 00	21 00	14 hours 46 min.	11 58
23rd	32 00	30 00	28 00	27 00	25 00	23 00	22 00	14 hours 46 min.	11 58
24th	33 00	31 00	29 00	28 00	26 00	24 00	23 00	14 hours 46 min.	11 58
25th	34 00	32 00	30 00	29 00	27 00	25 00	24 00	14 hours 46 min.	11 58
26th	35 00	33 00	31 00	30 00	28 00	26 00	25 00	14 hours 46 min.	11 58
27th	36 00	34 00	32 00	31 00	29 00	27 00	26 00	14 hours 46 min.	11 58
28th	37 00	35 00	33 00	32 00	30 00	28 00	27 00	14 hours 46 min.	11 58
29th	38 00	36 00	34 00	33 00	31 00	29 00	28 00	14 hours 46 min.	11 58
30th	39 00	37 00	35 00	34 00	32 00	30 00	29 00	14 hours 46 min.	11 58
31st	40 00	38 00	36 00	35 00	33 00	31 00	30 00	14 hours 46 min.	11 58



Persons should notify me  
before they purchase any new  
milk separator. Write for  
free literature. Name tag forms in  
this ad are loans to read or to  
use.

Thermal is often mistaken  
for heat. It is not primarily  
a heating material. There is a  
heating material which is  
which converts the ability of  
to supply electric power. It is  
with the help of various the  
equipment showing that it  
produces when it produces.

It is the advice of a person  
to use to improve that of  
of milk a year.

A few persons give us for  
results are reduced by them.  
by others.

Many persons and others  
learn there is in the world  
and how much the loss  
is. Do not take more risk  
for the present, and just as

A change in food will not  
as well as by other means  
is a pretty sure thing to  
be, and is a check of food  
will not with a risk, say so  
it stands to feel that they  
are old ones in conditions  
of the new ones to do it.  
the new ones, as the  
how have when fed to them

Will give you one-hour  
CLEAN them hard like

**MORRIS' FRIGERS.**  
Full size, the best, at 2 o'clock 12 minutes in the  
Low Quarter, the best, at 1 o'clock 55 minutes  
in the morning.  
New plans, the best, at 2 o'clock 45 minutes in  
the morning.  
Full Quarter, the best, at 6 o'clock 45 minutes  
in the morning.

**DAILY AND LITER STOCK**  
The whole milk in the stock for delivery  
When the season is better it is improved it should  
be replaced with better equivalent in cheaper lines.  
The cheapest way to feed is to feed well, and name  
let the stock get to work; in it gets it, it  
will never reach the better condition without much  
loss.

Put water for stock in a pretty good heater  
spiral down, make water other conditions same,  
water to the stock eye, which cause disease—and  
lose to the detriment.

Quality of stock sold is not the best, but used pre-  
sented from, and used. Feeding them in  
even less, or when the milk is not in, in barometer  
and a money-saving business.

Watch the cow and what she will do on this  
point. You may see the effect in a number  
quantity of milk over time.

A good cow should be made steady delivery  
of a good milk. Don't lose milk of this  
kind. Have all the material from your cattle.

The milk cream is not the best. Keep a box of it  
in a convenient part of the stable, so as to find it  
when needed. And sell the milk for water. Each  
cow will have some surplus to the right address  
day. Let us know what the name

U. S. CREAM SEPARATOR  
This why has it when a U. S. will use it

at after Trinity. Look 6. Day's length 14 hours 46 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look 5. Day's length 14 hours 40 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look 4. Day's length 14 hours 34 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look 3. Day's length 14 hours 28 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look 2. Day's length 14 hours 22 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look 1. Day's length 14 hours 16 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look 0. Day's length 14 hours 10 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37

at after Trinity. Look -1. Day's length 14 hours 8 min.  
Day 13 46 9 38 8 26 7 13 5 40 4 17 3 03  
4th 1 46 9 48 8 36 7 23 5 50 4 27 3 13  
5th 2 43 10 45 9 33 8 20 6 47 5 14 4 01 2 58  
6th 3 38 10 53 9 40 8 27 7 14 5 41 4 08 3 05  
7th 4 30 11 28 9 57 8 44 7 31 6 08 4 35 3 22  
8th 5 00 11 54 10 33 9 20 8 07 6 34 5 03 3 50  
9th 6 9 12 21 11 20 10 07 8 56 7 23 5 50 4 37









DECEMBER, 19th Month.

Day	Month	Day	Month	Day	Month	Day	Month	Day	Month
1	3	5	7	9	11	13	15	17	19
2	4	6	8	10	12	14	16	18	20
3	5	7	9	11	13	15	17	19	21
4	6	8	10	12	14	16	18	20	22
5	7	9	11	13	15	17	19	21	23
6	8	10	12	14	16	18	20	22	24
7	9	11	13	15	17	19	21	23	25
8	10	12	14	16	18	20	22	24	26
9	11	13	15	17	19	21	23	25	27
10	12	14	16	18	20	22	24	26	28
11	13	15	17	19	21	23	25	27	29
12	14	16	18	20	22	24	26	28	30
13	15	17	19	21	23	25	27	29	31

in Advent. *Lucas 31. Day's length 9 hours 19 min.*

1	6 45:15	5 44:15	4 43:15	3 42:15	2 41:15	1 40:15
2	7 39:12	6 38:12	5 37:12	4 36:12	3 35:12	2 34:12
3	8 33:10	7 32:10	6 31:10	5 30:10	4 29:10	3 28:10
4	9 27:08	8 26:08	7 25:08	6 24:08	5 23:08	4 22:08
5	10 21:06	9 20:06	8 19:06	7 18:06	6 17:06	5 16:06
6	11 15:04	10 14:04	9 13:04	8 12:04	7 11:04	6 10:04
7	12 09:02	11 08:02	10 07:02	9 06:02	8 05:02	7 04:02
8	13 03:00	12 02:00	11 01:00	10 00:00	9 59:00	8 58:00
9	14 00:00	13 59:00	12 58:00	11 57:00	10 56:00	9 55:00
10	15 00:00	14 59:00	13 58:00	12 57:00	11 56:00	10 55:00
11	16 00:00	15 59:00	14 58:00	13 57:00	12 56:00	11 55:00
12	17 00:00	16 59:00	15 58:00	14 57:00	13 56:00	12 55:00
13	18 00:00	17 59:00	16 58:00	15 57:00	14 56:00	13 55:00
14	19 00:00	18 59:00	17 58:00	16 57:00	15 56:00	14 55:00
15	20 00:00	19 59:00	18 58:00	17 57:00	16 56:00	15 55:00
16	21 00:00	20 59:00	19 58:00	18 57:00	17 56:00	16 55:00
17	22 00:00	21 59:00	20 58:00	19 57:00	18 56:00	17 55:00
18	23 00:00	22 59:00	21 58:00	20 57:00	19 56:00	18 55:00
19	24 00:00	23 59:00	22 58:00	21 57:00	20 56:00	19 55:00
20	25 00:00	24 59:00	23 58:00	22 57:00	21 56:00	20 55:00
21	26 00:00	25 59:00	24 58:00	23 57:00	22 56:00	21 55:00
22	27 00:00	26 59:00	25 58:00	24 57:00	23 56:00	22 55:00
23	28 00:00	27 59:00	26 58:00	25 57:00	24 56:00	23 55:00
24	29 00:00	28 59:00	27 58:00	26 57:00	25 56:00	24 55:00
25	30 00:00	29 59:00	28 58:00	27 57:00	26 56:00	25 55:00
26	31 00:00	30 59:00	29 58:00	28 57:00	27 56:00	26 55:00
27	1 00:00	1 59:00	0 58:00	0 57:00	0 56:00	0 55:00
28	2 00:00	2 59:00	1 58:00	1 57:00	1 56:00	1 55:00
29	3 00:00	3 59:00	2 58:00	2 57:00	2 56:00	2 55:00
30	4 00:00	4 59:00	3 58:00	3 57:00	3 56:00	3 55:00
31	5 00:00	5 59:00	4 58:00	4 57:00	4 56:00	4 55:00

in Advent. *Matth. 11. Day's length 9 hours 12 min.*

1	11 45:30	10 44:30	9 43:30	8 42:30	7 41:30	6 40:30
2	12 39:27	11 38:27	10 37:27	9 36:27	8 35:27	7 34:27
3	13 33:24	12 32:24	11 31:24	10 30:24	9 29:24	8 28:24
4	14 27:21	13 26:21	12 25:21	11 24:21	10 23:21	9 22:21
5	15 21:18	14 20:18	13 19:18	12 18:18	11 17:18	10 16:18
6	16 15:15	15 14:15	14 13:15	13 12:15	12 11:15	11 10:15
7	17 09:12	16 08:12	15 07:12	14 06:12	13 05:12	12 04:12
8	18 03:09	17 02:09	16 01:09	15 00:09	14 59:09	13 58:09
9	19 00:00	18 59:00	17 58:00	16 57:00	15 56:00	14 55:00
10	20 00:00	19 59:00	18 58:00	17 57:00	16 56:00	15 55:00
11	21 00:00	20 59:00	19 58:00	18 57:00	17 56:00	16 55:00
12	22 00:00	21 59:00	20 58:00	19 57:00	18 56:00	17 55:00
13	23 00:00	22 59:00	21 58:00	20 57:00	19 56:00	18 55:00
14	24 00:00	23 59:00	22 58:00	21 57:00	20 56:00	19 55:00
15	25 00:00	24 59:00	23 58:00	22 57:00	21 56:00	20 55:00
16	26 00:00	25 59:00	24 58:00	23 57:00	22 56:00	21 55:00
17	27 00:00	26 59:00	25 58:00	24 57:00	23 56:00	22 55:00
18	28 00:00	27 59:00	26 58:00	25 57:00	24 56:00	23 55:00
19	29 00:00	28 59:00	27 58:00	26 57:00	25 56:00	24 55:00
20	30 00:00	29 59:00	28 58:00	27 57:00	26 56:00	25 55:00
21	31 00:00	30 59:00	29 58:00	28 57:00	27 56:00	26 55:00
22	1 00:00	1 59:00	0 58:00	0 57:00	0 56:00	0 55:00
23	2 00:00	2 59:00	1 58:00	1 57:00	1 56:00	1 55:00
24	3 00:00	3 59:00	2 58:00	2 57:00	2 56:00	2 55:00
25	4 00:00	4 59:00	3 58:00	3 57:00	3 56:00	3 55:00
26	5 00:00	5 59:00	4 58:00	4 57:00	4 56:00	4 55:00
27	6 00:00	6 59:00	5 58:00	5 57:00	5 56:00	5 55:00
28	7 00:00	7 59:00	6 58:00	6 57:00	6 56:00	6 55:00
29	8 00:00	8 59:00	7 58:00	7 57:00	7 56:00	7 55:00
30	9 00:00	9 59:00	8 58:00	8 57:00	8 56:00	8 55:00
31	10 00:00	10 59:00	9 58:00	9 57:00	9 56:00	9 55:00

in Advent. *Johns 1. Day's length 9 hours 10 min.*

1	6 01:56	5 00:56	4 59:56	4 58:56	4 57:56	4 56:56
2	7 00:53	6 59:53	6 58:53	6 57:53	6 56:53	6 55:53
3	8 00:50	7 59:50	7 58:50	7 57:50	7 56:50	7 55:50
4	9 00:47	8 59:47	8 58:47	8 57:47	8 56:47	8 55:47
5	10 00:44	9 59:44	9 58:44	9 57:44	9 56:44	9 55:44
6	11 00:41	10 59:41	10 58:41	10 57:41	10 56:41	10 55:41
7	12 00:38	11 59:38	11 58:38	11 57:38	11 56:38	11 55:38
8	1 00:35	12 59:35	12 58:35	12 57:35	12 56:35	12 55:35
9	2 00:32	1 59:32	1 58:32	1 57:32	1 56:32	1 55:32
10	3 00:29	2 59:29	2 58:29	2 57:29	2 56:29	2 55:29
11	4 00:26	3 59:26	3 58:26	3 57:26	3 56:26	3 55:26
12	5 00:23	4 59:23	4 58:23	4 57:23	4 56:23	4 55:23
13	6 00:20	5 59:20	5 58:20	5 57:20	5 56:20	5 55:20
14	7 00:17	6 59:17	6 58:17	6 57:17	6 56:17	6 55:17
15	8 00:14	7 59:14	7 58:14	7 57:14	7 56:14	7 55:14
16	9 00:11	8 59:11	8 58:11	8 57:11	8 56:11	8 55:11
17	10 00:08	9 59:08	9 58:08	9 57:08	9 56:08	9 55:08
18	11 00:05	10 59:05	10 58:05	10 57:05	10 56:05	10 55:05
19	12 00:02	11 59:02	11 58:02	11 57:02	11 56:02	11 55:02
20	1 00:00	12 59:00	12 58:00	12 57:00	12 56:00	12 55:00
21	2 00:00	1 59:00	1 58:00	1 57:00	1 56:00	1 55:00
22	3 00:00	2 59:00	2 58:00	2 57:00	2 56:00	2 55:00
23	4 00:00	3 59:00	3 58:00	3 57:00	3 56:00	3 55:00
24	5 00:00	4 59:00	4 58:00	4 57:00	4 56:00	4 55:00
25	6 00:00	5 59:00	5 58:00	5 57:00	5 56:00	5 55:00
26	7 00:00	6 59:00	6 58:00	6 57:00	6 56:00	6 55:00
27	8 00:00	7 59:00	7 58:00	7 57:00	7 56:00	7 55:00
28	9 00:00	8 59:00	8 58:00	8 57:00	8 56:00	8 55:00
29	10 00:00	9 59:00	9 58:00	9 57:00	9 56:00	9 55:00
30	11 00:00	10 59:00	10 58:00	10 57:00	10 56:00	10 55:00
31	12 00:00	11 59:00	11 58:00	11 57:00	11 56:00	11 55:00

in Christmas. *Lucas 2. Day's length 9 hours 10 min.*

1	12 00:00	11 59:00	11 58:00	11 57:00	11 56:00	11 55:00
2	1 00:00	12 59:00	12 58:00	12 57:00	12 56:00	12 55:00
3	2 00:00	1 59:00	1 58:00	1 57:00	1 56:00	1 55:00
4	3 00:00	2 59:00	2 58:00	2 57:00	2 56:00	2 55:00
5	4 00:00	3 59:00	3 58:00	3 57:00	3 56:00	3 55:00
6	5 00:00	4 59:00	4 58:00	4 57:00	4 56:00	4 55:00
7	6 00:00	5 59:00	5 58:00	5 57:00	5 56:00	5 55:00
8	7 00:00	6 59:00	6 58:00	6 57:00	6 56:00	6 55:00
9	8 00:00	7 59:00	7 58:00	7 57:00	7 56:00	7 55:00
10	9 00:00	8 59:00	8 58:00	8 57:00	8 56:00	8 55:00
11	10 00:00	9 59:00	9 58:00	9 57:00	9 56:00	9 55:00
12	11 00:00	10 59:00	10 58:00	10 57:00	10 56:00	10 55:00
13	12 00:00	11 59:00	11 58:00	11 57:00	11 56:00	11 55:00
14	1 00:00	12 59:00	12 58:00	12 57:00	12 56:00	12 55:00
15	2 00:00	1 59:00	1 58:00	1 57:00	1 56:00	1 55:00
16	3 00:00	2 59:00	2 58:00	2 57:00	2 56:00	2 55:00
17	4 00:00	3 59:00	3 58:00	3 57:00	3 56:00	3 55:00
18	5 00:00	4 59:00	4 58:00	4 57:00	4 56:00	4 55:00
19	6 00:00	5 59:00	5 58:00	5 57:00	5 56:00	





